

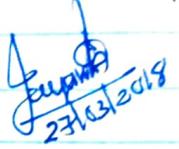
Minutes of the meeting of Board of Studies (Biotechnology)  
 CMS College, Kottayam held at 2.45 PM on 27/3/18  
 at Seminar Hall, Department of Biotechnology, CMS College

Members Present:

1) Prof. Joseph P. Varghese (Chairman)



2) Dr. Jeyachandran R, SBS, MG University

  
 27/03/2018

3) Renji Varghese  27/3/18

Also present

Dr. Jinu John, Secretary, BOS, Assistant Professor, Department of Biotechnology,  
 CMS College, Kottayam

Apology for absence

- Dr. Latha Sadanandan, Assistant Professor, SN College, Kollam, (Faculty member, BOS)
- Dr. Bindu Roy, Scientist, RRII, Kottayam (Expert, BOS)
- Dr. Sunitha T.K, Assistant Professor, SME Kottayam

The Chairman, Prof. (Dr.) Joseph P. Varghese welcomed the members and in his introductory remarks he presented the agenda of the meeting.

### Agenda Items

#### Agenda Item No.1. Syllabus Revision

Mr. Renji Varghese presented the details of the changes made in the revised UG and PG curricula. The feedback gathered from various stakeholders like students, teachers, parents, industrialists, employers, etc. were discussed. The restructuring of the syllabus was made in tune with the UGC model curriculum and the existing curriculum of the MG University. The curriculum was restructured by mapping the courses incorporating graduate program outcomes (GPO), program specific outcomes (PSO), course outcomes (CO).

The Courses in Biotechnology were devised in such a manner:

1. To equip students in dealing with the latest developments in the field of Biotechnology.
2. Due significance was given to incorporate Local, National, Regional and Global developmental needs in the curriculum
3. The existing courses were streamlined with focus on Employability, Entrepreneurship and Skill development
4. In order to facilitate the courses, it was decided to sign MOUs to collaborate with organizations relating to the discipline that would be helpful to the students.

The Common Courses offered met the need to sensitise the students by incorporating aspects like Gender, Environment, Sustainable living, Human Values and Professional Ethics in the curriculum.

It was also decided to introduce Internship at the end of second semester.

The changes made in the UG curriculum are,

**Major changes:**

**1. Change in Order of courses**

- **Instead of Core paper 'Operating system and Office Automation (Sem I)' Applied Molecular Biology has been Newly introduced in sem V**
- **Biostatistics of SEM VI has been shifted to SEM I in the position of Operating system and Office Automation**
- **Recombinant DNA Technology (Sem V) has been shifted to Sem VI in the position of Biostatistics**

Explanation: Since the paper *Operating system and Office Automation* is already included in school curriculum, only the very relevant contents of this paper are incorporated in Bioinformatics (Sem VI)

2. Each course has been restructured in to four modules with subunits (if necessary)
3. Practicals of all the core and complementary courses have been made in to separate courses
4. Credits and instructional hours of theory and practical courses have been defined separately
5. New relevant references were included

## **Minor Changes**

### **Biotechnology core courses**

**Semester I: Cell Biology & Developmental Biology:** The existing paper *Cell biology and Developmental biology and Evolution* has been renamed as *Cell biology and Developmental biology*, removing the topic *Evolution* (the topic) and that has been incorporated in Molecular Biology (Semester 2) course

- Effective transfer of knowledge to the students and proper organization of the course

**Semester I: Biostatistics:** only the order changed (Ref. Major Change point 1)

**Semester 2: Biophysics and Instrumentation** – Content retained but reordered with in the course

**Semester 2: Molecular Biology:** The Topic *Methods in Molecular Biology* of the existing syllabus is shifted to the newly introduced paper *Molecular and Clinical Laboratory Techniques* (Semester VI). Instead, the topic *Molecular evolution* is included to compensate the instructional hours, which has been shifted from paper *Cell biology, Developmental Biology and Evolution* (in the first semester).

**Semester III: Microbiology and Microbial Biotechnology:** Repeating contents this course (both in Biotech and Botany core paper) has been replaced with new relevant topics, while they are retained in Botany core paper

**Semester III: Immunology:** Content retained but reordered with in the course

**Semester IV: Animal Biotechnology and Nanobiotechnology:** Content retained but reordered with in the course

**Semester IV: Plant Biotechnology:** Content retained but reordered with in the course

**Semester V: ECOTOURISM:** Content retained but reordered with in the course

**Semester VI: Recombinant DNA Technology:** Content retained but reordered with in the course

**Semester VI: Phytochemistry and Pharmacognosy:** Content retained but reordered with in the course

**Biochemistry Complementary Papers (Sem I- Sem IV):** Content retained with minor changes (addition of relevant topics)

This was followed by a general discussion on further development of the curriculum and activities of the coming academic year.

The Board of studies approved the revised UG curriculum for the academic year 2018-19 including the Botany syllabus approved by the Board of Studies, Botany.

**Agenda Item No.2: Approval of PG curriculum**

The Board of studies approved the presented PG curriculum for the academic year 2018-19.

**Agenda Item No.3: Extra credit and add-on courses**

Being a self financing department, it is difficult to get UGC or Government funds. Introduction of these courses will impose extra financial burden on students. Hence BOS decided not to introduce these courses in the coming academic year.

**Agenda Item No.4 Other matters arising from the floor**

Nil

Dr. Jinu John, Secretary, BOS- Biotechnology, proposed the vote of thanks. The meeting concluded at 4.30 PM.



**Dr. Jinu John**

(Secretary, BOS- Biotechnology)

*Read, confirmed and signed by*



**Prof. (Dr.) Joseph P. Varghese**

(Chairman, BOS- Biotechnology)